

```
In [1]: import pandas as pd
import numpy as np
from sklearn.preprocessing import MinMaxScaler
from sklearn.metrics import confusion_matrix, accuracy_score
```

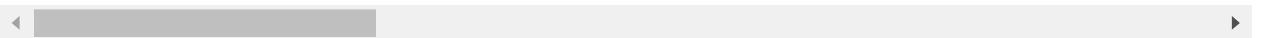
```
In [2]: # Import Dataset
```

```
In [3]: data=pd.read_csv("dataset_website.csv")
data.head()
```

```
Out[3]:
```

	index	having_IP	having_IP_Address	URLURL_Length	Shortining_Service	having_At_Symbol	do
0	1		-1	1	1	1	
1	2		1	1	1	1	
2	3		1	0	1	1	
3	4		1	0	1	1	
4	5		1	0	-1	1	

5 rows × 32 columns



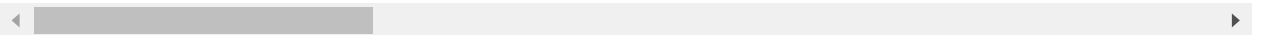
```
In [4]: # Handling Null Values
```

```
In [8]: data.isnull()
```

```
Out[8]:
```

	index	having_IP	having_IP_Address	URLURL_Length	Shortining_Service	having_At_Symbol	do
0	False		False	False	False	False	
1	False		False	False	False	False	
2	False		False	False	False	False	
3	False		False	False	False	False	
4	False		False	False	False	False	
...	
11050	False		False	False	False	False	
11051	False		False	False	False	False	
11052	False		False	False	False	False	
11053	False		False	False	False	False	
11054	False		False	False	False	False	

11055 rows × 32 columns



```
In [10]: data.info()
# No null values
data.isnull().any()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 11055 entries, 0 to 11054
Data columns (total 32 columns):
#   Column                                          Non-Null Count  Dtype
---  -
0   index                                          11055 non-null  int64
1   having_IPhaving_IP_Address                   11055 non-null  int64
2   URLURL_Length                               11055 non-null  int64
3   Shortining_Service                          11055 non-null  int64
4   having_At_Symbol                            11055 non-null  int64
5   double_slash_redirecting                    11055 non-null  int64
6   Prefix_Suffix                               11055 non-null  int64
7   having_Sub_Domain                           11055 non-null  int64
8   SSLfinal_State                              11055 non-null  int64
9   Domain_registration_length                  11055 non-null  int64
10  Favicon                                       11055 non-null  int64
11  port                                          11055 non-null  int64
12  HTTPS_token                                 11055 non-null  int64
13  Request_URL                                 11055 non-null  int64
14  URL_of_Anchor                               11055 non-null  int64
15  Links_in_tags                               11055 non-null  int64
16  Submitting_to_email                         11055 non-null  int64
17  Abnormal_URL                                11055 non-null  int64
18  Redirect                                     11055 non-null  int64
19  on_mouseover                                11055 non-null  int64
20  RightClick                                  11055 non-null  int64
21  popUpWidnow                                 11055 non-null  int64
22  Iframe                                       11055 non-null  int64
23  age_of_domain                               11055 non-null  int64
24  DNSRecord                                    11055 non-null  int64
25  web_traffic                                 11055 non-null  int64
26  Page_Rank                                   11055 non-null  int64
27  Google_Index                                11055 non-null  int64
28  Links_pointing_to_page                      11055 non-null  int64
29  Statistical_report                          11055 non-null  int64
30  Result                                       11055 non-null  int64
Dtype: int64(32)
memory usage: 2.7 MB
```

```
Out[10]: index                                False
having_IPhaving_IP_Address                   False
URLURL_Length                               False
Shortining_Service                          False
having_At_Symbol                            False
double_slash_redirecting                    False
Prefix_Suffix                               False
having_Sub_Domain                           False
SSLfinal_State                              False
Domain_registration_length                  False
Favicon                                       False
```

HTTPS_token	False
Request_URL	False
URL_of_Anchor	False
Links_in_tags	False
SFH	False
Submitting_to_email	False
Abnormal_URL	False
Redirect	False
on_mouseover	False
RightClick	False
popUpWidnow	False
Iframe	False
age_of_domain	False
DNSRecord	False
web_traffic	False
Page_Rank	False
Google_Index	False
Links_pointing_to_page	False
Statistical_report	False
Result	False
dtype: bool	

In []: